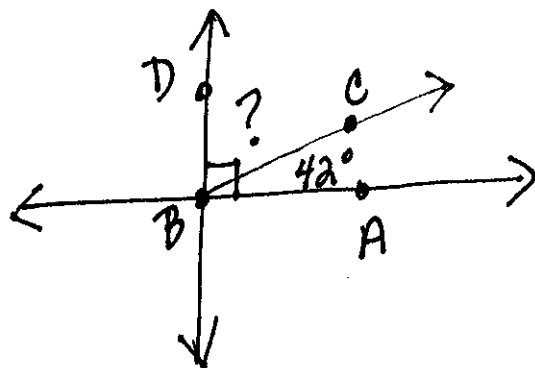


11-29-12

ANGLE RELATIONSHIPS

Complementary \angle s - 2 or more \angle s that add up to 90°

Ex:



$$\angle ABC = 42^\circ$$

$$\angle DBC = 48^\circ$$

b/c

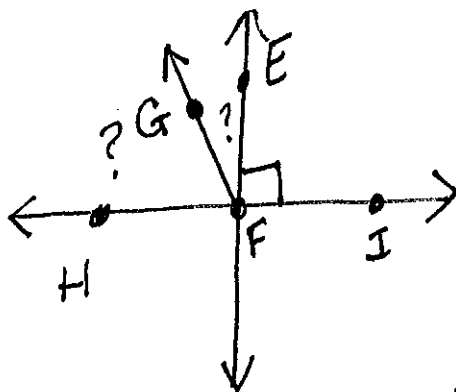
$$42 + 48 = 90$$

OR

$$90 - 42 = 48$$

Supplementary \angle s - \angle s that add up to 180°

Ex:



$$\angle GFI = 117^\circ$$

$$\angle GFH = 63^\circ$$

b/c

$$117 + 63 = 180$$

OR

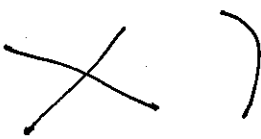
$$180 - 117 = 63$$

$$\angle GFE = 27^\circ$$

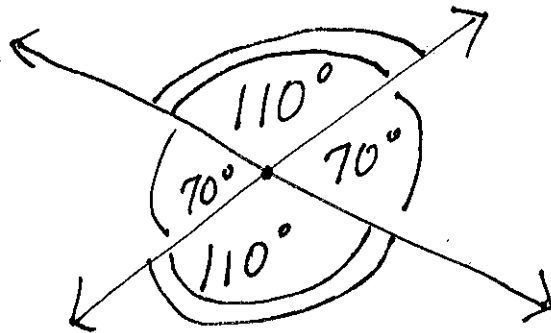
$$117 - 90 = 27$$

and

$$27 + 90 + 63 = 180^\circ$$

Vertical \angle s - angles that are opposite from each other, sharing the same vertex, and are congruent
(looks like an )

Ex:



$$\begin{aligned} 180 - 70 &= 110 \\ 110 + 70 &= 180 \\ &\text{(supplementary)} \end{aligned}$$